

## CLAIMS

What is claimed is:

- 1           1.       A method comprising:
- 2     receiving data from an application;
- 3     creating a socket;
- 4     associating the socket with an AF\_INET address family and performing a mapping
- 5         between a socket API and an SDP layer if the application is a legacy application;
- 6         and
- 7     associating the socket with an AF\_IB address family and performing a mapping between
- 8         the socket API and an IB verb if the application is a new application.

- 1           2.       The method of claim 1, further comprising providing the data to a channel
- 2     adapter for transmission over an IBA fabric.

- 1           3.       The method of claim 1, wherein the application is a new application, the
- 2     act of performing a mapping between the socket API and an IB verb comprising
- 3     performing a mapping between the socket API and the SDP layer.

1           4.       A system comprising:

2       a channel adapter coupled with an IBA fabric, the channel adapter to receive data from  
3       applications;

4       a socket API to provide an interface with the applications; and

5       an InfiniSock layer to provide an interface between the socket API and the channel

6       adapter, the InfiniSock layer including an AF\_INET address family and an AF\_IB

7       address family, the InfiniSock layer to provide a mapping between the socket API

8       and an SDP layer for legacy applications and a mapping between the socket API

9       and an IB verb for new applications.

1           5.       The system of claim 4, further comprising a socket, the socket associated

2       with one of the AF\_INET address family and the AF\_IB address family.

1           6.       The system of claim 4, the InfiniSock layer to provide a mapping between

2       the socket API and the SDP layer for a new application.

1           7.       An article of manufacture comprising:

2       a machine accessible medium providing content that, when accessed by a machine,

3       causes the machine to

4           receive data from an application;

5           create a socket;

6       associate the socket with an AF\_INET address family and perform a mapping

7           between a socket API and an SDP layer if the application is a legacy

8           application; and

9       associate the socket with an AF\_IB address family and perform a mapping

10           between the socket API and an IB verb if the application is a new

11           application.

1           8.       The article of manufacture of claim 7, wherein the content, when accessed,

2       further causes the machine to provide the data to a channel adapter for transmission over

3       an IBA fabric.

1           9.       The article of manufacture of claim 7, wherein the application is a new

2       application and the content, when accessed, further causes the machine to perform a

3       mapping between the socket API and the SDP layer.

10. A network comprising:

an IBA fabric;

a first system coupled with the IBA fabric, the first system including

a channel adapter coupling the first system with the IBA fabric, the channel

adapter to receive data from applications resident on the first system,

a socket API to provide an interface with the applications, and

an InfiniSock layer to provide an interface between the socket API and the

channel adapter, the InfiniSock layer including an AF\_INET address

family and an AF\_IB address family, the InfiniSock layer to provide a

mapping between the socket API and an SDP layer for legacy applications

and a mapping between the socket API and an IB verb for new

applications; and

a second system coupled with the IBA fabric.

11. The network of claim 10, the applications of the first system including a

legacy application and a new application.

12. The network of claim 10, the second system including a legacy

application.

13. The network of claim 10, the second system including a new application.

1           14.     The network of claim 10, the second system comprising:  
2     a channel adapter coupling the second system with the IBA fabric, the channel adapter to  
3         receive data from applications resident on the second system;  
4     a socket API to provide an interface with the applications; and  
5     an InfiniSock layer to provide an interface between the socket API and the channel  
6         adapter, the InfiniSock layer including an AF\_INET address family and an AF\_IB  
7         address family, the InfiniSock layer to provide a mapping between the socket API  
8         and an SDP layer for legacy applications and a mapping between the socket API  
9         and an IB verb for new applications.